3.5-Inch Enhanced Rewritable Optical Drive

Removable hard-drive capacity

Professionals using personal computers need easy-to-use, cost-effective ways to store and transport large amounts of data. This is especially true in areas like graphic design, CAD/CAM, multimedia, software coding, imaging, animation, video production or music composition.

If you are a large-data-set user, the IBM 3.5-Inch Enhanced Rewritable Optical Drive is a flexible and expandable storage option. This highly reliable drive can write, read and write again up to 127MB—enough to fill the hard drive on many PCs or fill 88 regular 3.5-inch diskettes. Even more convenient and important—your storage capacity becomes unlimited. When one cartridge is filled, you replace it with another 127MB.

In addition to handling large files, the 3.5-Inch Enhanced Rewritable Optical Drive is especially well suited for data exchange between systems, for the distribution of information that requires periodic updates, for applications where the quantity of copies is not sufficient to justify the cost of CD-ROM, and for efficient backup and restore operations. For example, a typical 80MB hard drive can be backed up in less than 20 minutes.

The IBM 3.5-Inch Enhanced Rewritable Optical Drive attaches either internally or externally to most IBM systems through a SCSI port. There are Micro Channel® and ISA SCSI adapters available from IBM. The drive attaches externally to PS/2® or PS/ValuePoint™ systems with either the PS/2 SCSI Storage Enclosure or the PS/2 External Enclosure for SCSI Devices. It also is tested and independently certified by XXCAL® Inc. to be compatible with a broad mix of non-IBM computer systems and SCSI adapter cards.[1]

O-ROM and P-ROM cartridges with typical capacities of 122MB can be used effectively by software and application developers to distribute CD-ROM-like applications.

In addition to durability, reliability and portability, optical cartridges can provide one of the lowest cost per megabyte of all rewritable, removable storage options.

For security and auditability, the 3.5-Inch Enhanced Rewritable Optical Disk Drive has a user-invoked password function that prevents operation by unauthorized persons.[2] The optical media can be ejected from the software and can be locked in or out of the drive, with selected PS/2 systems.

Highlights

- Provides storage for any environment requiring high-performance removable media devices
- Installs in, or attaches to, all IBM PS/2 SCSI systems
- Installs in IBM Industrial Computers 7537, 7568, and 7546
- Provides fast data transfer rates because of a 256KB read-ahead data buffer and 3000 rpm rotation
- Enhances productivity with a 40ms average seek time
- Comes with security features
- Supports reusable read/write media (127MB MO), read-only media (122MB O-ROM), and partial read-only media (122MB P-ROM)
- Attaches to PS/Value Point Systems with optional SCSI adapter installed

Features	Benefits
Online data access for large files	• Enables new, innovative audio, video, text and multimedia business applications • Complements disk drives, diskettes and tape, offering high-capacity direct access to online data • Economically extends online access and retrieval to key data currently archived to diskette, tape or paper • Provides more centralized control of information availability, with data stored on optical cartridges, not scattered on numerous diskettes or across an individual's desk
Removable high-capacity media (up to 127MB unformatted capacity)	• Distributes programs and large files, such as those for online databases and those with multimedia content (video, audio and image) easily and effectively • Replaces more than 88 diskettes (1.44 MB formatted) with a single optical cartridge
High performance (40ms average seek time and up to 640 KB/sec data transfer rate)	• Backs up and restores data faster than diskette drives • Runs many programs directly from the device, preserving system hard disk storage for other applications
SCSI interface	• Attaches to PS/2 Micro Channel systems via a SCSI adapter or to ISA/AT®-Bus PS/2 systems, PS/1® systems and PS/ValuePoint systems with an IBM 16-Bit AT Fast SCSI Adapter Kit • Works with several SCSI devices on a single adapter • Allows a single device to be shared in a workgroup for backup/restore or downloading of files

IBM 3.5-Inch Enhanced Rewritable Optical Drive at a glance

Part number	6451295, FC 1295
Drive specifications	
Formatted capacity	127MB(MO); 122MB (O-ROM, P-ROM). Actual user capacity may vary slightly.
Data transfer rates	Read: 640 KB/sec; Write: 213 KB/sec
Average seek time	40ms
Rotation speed	3,000 rpm
Data buffer	256KB
SCSI device interface	Adheres to ANSI SCSI X3.131-1986 standards
Systems supported	
Internal device	Supported on PS/2 Models 35, 40, 57, 60, 65 SX, 76, 77, 80 386, 85, 90 XP486, and 95 XP 486 with the SCSI adapter installed
External device	Supported in either the PS/2 External Enclosure for SCSI Devices (3511-0V0) or the PS/2 SCSI Storage Enclosure (3510-0V0); attaches to any PS/2 Micro Channel system via a SCSI adapter and appropriate cabling; attaches to PS/1 systems and PS/ValuePoint systems with an IBM 16-Bit AT Fast SCSI Adapter Kit
Operating systems support	OS/2® Standard Edition,1.30.1; OS/2 Extended Edition,1.30.2; OS/2 2.0, 2.00.1; OS/2 LAN Server 2.0; Extended Services Version 1.0 for OS/2; OS/2J 1.3EE; OS/2J 2.0; DOS 5.0 and later; Windows™ 3.0 and later; PS/2 AIX®, 1.2.1; SCO™ UNIX™ V/386 3.2v.4; SCP XENIX™ 2.3.4; Open Desktop™ 1.1 and later; Novell™ NetWare™ 3.11 and later
Other software support	Menu-driven DOS backup/restore program included on the Option Diskette
Normal operating current	+5V line: 1.1A; +12V line: 1.4A
Media	3.5-inch magneto optical (MO) cartridge (127MB) 3.5-inch optical read-only memory (O-ROM) cartridge (122MB) 3.5-inch partial read only memory (P-ROM) cartridge (122MB) Adheres to ISO/IEC Standard JTC1 SC23/WG2 CD10090
Physical specifications	Width 101.6mm; Depth (with card) 169.0mm; Height 41.3mm
Approvals and safety	FCC Class B, UL/CSA recognized, VCCI Class 2, GOP VDE Class B, CSA 22.2 #950
Warranty	One year limited warranty

For more information about the PS/23.5-Inch Enhanced Rewritable Optical Drive, contact your IBM marketing representative, or call the Personal Systems Help Center at 1-800-772-2227.

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™ NetWare and Novell are trademarks of Novell, Inc. Open Desktop and UNIX are trademarks of UNIX System Laboratories, Inc. SCO and SCP XENIX are trademarks of Santa Cruz Corporation, Inc. Windows is a trademark of Microsoft Corporation.
[1] For more information contact XXCAL Testing Laboratories, 11500 W. Olympic Blvd., Suite 325, Los Angeles, CA 90064; (310) 477-2902; Fax(310)477-7127.
[2] Limited to PS/2 Models 9556 and 9557 with DOS 5.01 or OS/2 2.00.1 or greater.

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